

SEQUENCE LISTING

<110> Gregory M. Landes
Mary Haak-Frendscho
Ling Chen
Yen-Wah R. Lee
Meina Liang
Xiao Feng
Xiao-Chi Jia
Mark R. Nocerini

<120> ANTIBODIES DIRECTED TO PHOSPHOLIPASE A2
AND USES THEREOF

<130> ABGENIX.072A

<140> Unknown

<141> 2003-12-01

<150> n/a

<151>

<160> 222

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 1

```

ggccttccaa agtgetggga ttacaggcgt gagtcaccgc gcccggccaa ataaaataaa 60
atgttaaagc aaattcagga ctaccctcc tccaagtctt ctgttccctt tgggcgcca 120
ggtgagcggg ggaggggctg ggggagtaat aacatcaaaa gagcgcttt tcctccctta 180
ttccgaggag acttccctgg gcctgactcc cggctcctgtc ccagcgccc cgcggcctct 240
ggagcccctt cagtgaccaa gatacagaga tcaggacgcc tttgcgcgc cccaggtgcc 300
cgcccctagc tggctctgct tgggcgcga ggaagggtga ggtcgggggc ggagccgggg 360
cgtgacagcc ggggtgtgtg tccgcgggc ttggtgcctc cgggtggcct gcagcaccgt 420
cccacctctg ccacctccg atggggcgc tactgtgtg cctgccaatc atgtgtctcc 480
tgctactgcc gtcgtgtgtg ctgtgtgtg ttctacctgg ccccggtcc ggcgaggcct 540
ccagatatt acgtgtgcac cggcgtggga tcctggaact ggcaggaact gtgggttgtg 600
ttgggtccccg aacccccatc gcctatatga aatatggttg cttttgtggc ttgggaggcc 660
atggccagcc ccgcgatgcc attgactggt gctgccatgg ccacgactgt tggtacactc 720
gagctgagga ggccggctgc agccccaaga cagagcgcta ctctggcag tgcgtcaatc 780
agagcgtcct gtgcggaccg gcagagaaca aatgccaaga actgttgtgc aagtgtgacc 840
aggagattgc taactgctta gcccaactg agtacaactt aaagtacctc ttctaccccc 900
agttcctatg tgagccggac tcgccaagt gtgactgact accttgactt gaaatgtctc 960
tttgacacaag gaaataaagc gtcctctcag taatgaaaaa aaaaaaaaaa aaaaaaaaaa 1020

```

<210> 2

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2
Met Gly Pro Leu Pro Val Cys Leu Pro Ile Met Leu Leu Leu Leu Leu
1 5 10 15
Pro Ser Leu Leu Leu Leu Leu Leu Leu Pro Gly Pro Gly Ser Gly Glu
20 25 30
Ala Ser Arg Ile Leu Arg Val His Arg Arg Gly Ile Leu Glu Leu Ala
35 40 45
Gly Thr Val Gly Cys Val Gly Pro Arg Thr Pro Ile Ala Tyr Met Lys
50 55 60
Tyr Gly Cys Phe Cys Gly Leu Gly Gly His Gly Gln Pro Arg Asp Ala
65 70 75 80
Ile Asp Trp Cys Cys His Gly His Asp Cys Cys Tyr Thr Arg Ala Glu
85 90 95
Glu Ala Gly Cys Ser Pro Lys Thr Glu Arg Tyr Ser Trp Gln Cys Val
100 105 110
Asn Gln Ser Val Leu Cys Gly Pro Ala Glu Asn Lys Cys Gln Glu Leu
115 120 125
Leu Cys Lys Cys Asp Gln Glu Ile Ala Asn Cys Leu Ala Gln Thr Glu
130 135 140
Tyr Asn Leu Lys Tyr Leu Phe Tyr Pro Gln Phe Leu Cys Glu Pro Asp
145 150 155 160
Ser Pro Lys Cys Asp
165

<210> 3
<211> 118
<212> PRT
<213> Homo sapiens

<400> 3
Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ile Ser Tyr
20 25 30
Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
35 40 45
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Arg His Trp Ser Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr
100 105 110
Val Thr Val Ser Ser Ala
115

<210> 4
<211> 109
<212> PRT
<213> Homo sapiens

<400> 4
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Ser Gly
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Phe Leu
 35 40 45
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 5

<211> 118

<212> PRT

<213> Homo sapiens

<400> 5

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ile Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Trp Thr Tyr Ala Leu Asp Val Trp Gly Gln Gly Thr Ala
 100 105 110
 Val Thr Val Ser Ser Ala
 115

<210> 6

<211> 109

<212> PRT

<213> Homo sapiens

<400> 6

Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Pro Ser Gln Ser Val Arg Ser Asn
 20 25 30
 Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Val Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

100

105

<210> 7
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 7
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Ile Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Ser Gly Ser Ser Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala
 115

<210> 8
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 8
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30
 Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Tyr Arg Ala Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Ala Gly Val Tyr Phe Cys Met Gln Gly
 85 90 95
 Leu Lys Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
 100 105 110

<210> 9
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 9
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Asn Tyr
 20 25 30
 Trp Ile Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Arg Leu Gly Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser Ala
 115

<210> 10
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 10
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 Leu Asp Trp Cys Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Asn Tyr Pro Pro
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 11
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 11
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Arg Phe Thr Ser Tyr
 20 25 30
 Trp Ile Ser Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Arg Glu Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val

		100		105		110
Thr	Val	Ser	Ser	Ala		
		115				

[illegible][illegible]

<400> 14

Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Val	Arg	Ser	Asn
			20					25					30		
Tyr	Leu	Thr	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu
		35					40					45			
Ile	Tyr	Gly	Ala	Ser	Thr	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Gly	Ser	Ser	Pro
			85						90					95	
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg			
			100					105							

<210> 15

<211> 118

<212> PRT

<213> Homo sapiens

<400> 15

Gly	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Asn	Tyr
			20					25					30		
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Ile	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Gly	Gly	Val	Gly	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
			115												

<210> 16

<211> 110

<212> PRT

<213> Homo sapiens

<400> 16

Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly
1				5					10					15	
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ile	Ile	Arg	Arg	Ser
			20					25					30		
Ser	Leu	Ala	Trp	Tyr	Gln	Glu	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu
		35					40					45			
Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu

65					70					75					80
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Gly	Ser	Ser	Pro
				85					90					95	
Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg		
			100					105					110		

<210> 17
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 17															
Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Gly	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Ile	Asn	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70				75					80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90				95		
Ala	Arg	Ser	Thr	Ser	Ser	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
															115

<210> 18
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 18															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Arg	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70				75					80	
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro	Pro
				85					90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg				
			100					105							

<210> 19
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 19

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15
Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Asn Phe Ile Thr Tyr
20 25 30
Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
35 40 45
Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
50 55 60
Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80
Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Leu Thr Gly Thr Arg Ala Phe Glu Ile Trp Gly Gln Gly Thr Met
100 105 110
Val Thr Val Ser Ser Ala
115

<210> 20

<211> 111

<212> PRT

<213> Homo sapiens

<400> 20

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Tyr
20 25 30
Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Pro Gly Lys Gly Pro Lys
35 40 45
Leu Leu Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg
50 55 60
Phe Ser Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Arg Ser
65 70 75 80
Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Asn
85 90 95
Thr Pro Pro Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys Arg
100 105 110

<210> 21

<211> 119

<212> PRT

<213> Homo sapiens

<400> 21

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
1 5 10 15
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30
Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45
Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60
Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65					70					75					80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Arg	Asp	Trp	Asn	Tyr	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Met	Val	Thr	Val	Ser	Ser	Ala									
			115												

<210> 22
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 22															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Asn	Tyr
			20					25				30			
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Phe	Leu	Ile
	35					40					45				
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Ala	Pro	Ser	Arg	Phe	Ser	Gly
	50				55					60					
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65				70				75						80	
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser	Thr	Pro	Ile
			85					90					95		
Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg				
			100				105								

<210> 23
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 23															
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25				30			
Gly	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
	35					40					45				
Ala	Ala	Ile	Trp	Tyr	Asp	Gly	Ser	Asn	Lys	Trp	Tyr	Ala	Asp	Ser	Val
	50				55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65				70				75						80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Gly	Gly	Thr	Gly	Thr	Pro	Gly	Ala	Phe	Asp	Ile	Trp	Gly	Gln
			100				105						110		
Gly	Thr	Met	Val	Thr	Val	Ser	Ser	Ala							
			115				120								

<210> 24
 <211> 112

<212> PRT
 <213> Homo sapiens

<400> 24

Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly
1				5					10					15	
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Ser
			20					25					30		
Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser
		35					40					45			
Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val	Pro
	50					55					60				
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile
65					70					75				80	
Ser	Arg	Met	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Ala
				85					90					95	
Leu	Gln	Thr	Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg
			100					105						110	

<210> 25
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 25

Gln	Val	Gln	Leu	Glu	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr
			20					25					30		
Gly	Met	His	Trp	Val	Arg	Gln	Gly	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ala	Val	Ile	Trp	Tyr	Asp	Gly	Ser	Asn	Lys	Lys	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Asp	Gly	Pro	Ile	Phe	Gly	Val	Val	Met	Gly	Tyr	Trp	Gly	Gln
			100					105						110	
Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Ala							
			115					120							

<210> 26
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 26

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Thr	Ser	Gln	Ser	Ile	Ser	Asn	Tyr
			20					25					30		
Leu	Asn	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Ile	Leu	Leu	Ile
		35					40					45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly

50		55		60											
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75					80
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	His	Gln	Ser	Tyr	Ser	Ile	Pro	Ile
				85					90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg				
			100					105							

<210> 27
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 27															
Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Ile	Ser	Tyr
			20				25						30		
Trp	Ile	Ala	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35				40						45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Ala	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
				85					90					95	
Ala	Arg	Thr	Thr	Ser	Asp	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
															115

<210> 28
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 28															
Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5					10					15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
		35				40						45			
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
	50					55					60				
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
65					70					75					80
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Asn	Thr	Pro	Pro
				85					90					95	
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg				
			100					105							

<210> 29
 <211> 118

<212> PRT
 <213> Homo sapiens

<400> 29
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ile Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Gln Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Asp Ser Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr
 100 105 110
 Val Thr Val Ser Ser Ala
 115

<210> 30
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 102
 <223> Xaa = Any Amino Acid

<400> 30
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Leu Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Ser Thr Ser Xaa Ala Phe Asp Ile Trp Gly Gln Gly Thr Met
 100 105 110
 Val Thr Val Ser Ser Ala
 115

<210> 31
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 31

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Asn Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Val Arg Ser Pro Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala
 115

<210> 32
 <211> 23
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 21
 <223> n = inosine

<400> 32
 caggtgcagc tggagcagtc ngg 23

<210> 33
 <211> 24
 <212> DNA
 <213> Homo sapiens

<400> 33
 gctgagggag tagagtcctg agga 24

<210> 34
 <211> 19
 <212> DNA
 <213> Homo sapiens

<400> 34
 cacaccgcgg tcacatggc 19

<210> 35
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 35
 ctactctagg gcacctgtcc 20

<210> 36
 <211> 11

<212> DNA	
<213> Homo sapiens	
<400> 36	
tgggacctac t	11
<210> 37	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 37	
ggatacagct atggt	15
<210> 38	
<211> 16	
<212> DNA	
<213> Homo sapiens	
<400> 38	
gtatagcggt ggctgg	16
<210> 39	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 39	
tatagtagct cgtcc	15
<210> 40	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 40	
atagcagcag ctggt	15
<210> 41	
<211> 12	
<212> DNA	
<213> Homo sapiens	
<400> 41	
gggtatagca gt	12
<210> 42	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 42	
tcctttttaa	10
<210> 43	
<211> 10	
<212> DNA	

<213> Homo sapiens	
<400> 43	
ctggaactac	10
<210> 44	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 44	
ggatacagct atggt	15
<210> 45	
<211> 13	
<212> DNA	
<213> Homo sapiens	
<400> 45	
cagtggctgg tac	13
<210> 46	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 46	
ctggaactac	10
<210> 47	
<211> 20	
<212> DNA	
<213> Homo sapiens	
<400> 47	
tatgattacg tttgggggag	20
<210> 48	
<211> 15	
<212> DNA	
<213> Homo sapiens	
<400> 48	
ggatacagct atggt	15
<210> 49	
<211> 10	
<212> DNA	
<213> Homo sapiens	
<400> 49	
agggactgga	10
<210> 50	
<211> 15	
<212> DNA	
<213> Homo sapiens	

<400> 50
ggatacagct atggt

15

<210> 51
<211> 10
<212> PRT
<213> Homo sapiens

<400> 51
Gly Phe Thr Phe Ser Ser Tyr Ala Met Asn
1 5 10

<210> 52
<211> 17
<212> PRT
<213> Homo sapiens

<400> 52
Phe Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 53
<211> 9
<212> PRT
<213> Homo sapiens

<400> 53
Lys Gly Asp Trp Asn Tyr Glu Asp Tyr
1 5

<210> 54
<211> 10
<212> PRT
<213> Homo sapiens

<400> 54
Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Gly
1 5 10

<210> 55
<211> 17
<212> PRT
<213> Homo sapiens

<400> 55
Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln
1 5 10 15
Gly

<210> 56
<211> 8
<212> PRT
<213> Homo sapiens

<400> 56
Leu Gly Pro Thr Pro Phe Asp Tyr
1 5

<210> 57
<211> 10
<212> PRT
<213> Homo sapiens

<400> 57
Gly Tyr Thr Phe Thr Asp Tyr Tyr Ile His
1 5 10

<210> 58
<211> 17
<212> PRT
<213> Homo sapiens

<400> 58
Trp Ile His Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15
Gly

<210> 59
<211> 17
<212> PRT
<213> Homo sapiens

<400> 59
Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Met Asp
1 5 10 15
Val

<210> 60
<211> 12
<212> PRT
<213> Homo sapiens

<400> 60
Gly Asp Ser Val Ser Ser Asn Ser Ala Ala Trp Asn
1 5 10

<210> 61
<211> 18

<212> PRT
<213> Homo sapiens

<400> 61
Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala Val Ser Val
1 5 10 15
Lys Ser

<210> 62
<211> 16
<212> PRT
<213> Homo sapiens

<400> 62
Gly Glu Tyr Ser Gly Gly Trp Asn Phe Tyr Tyr Tyr Gly Met Asp Val
1 5 10 15

<210> 63
<211> 10
<212> PRT
<213> Homo sapiens

<400> 63
Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser
1 5 10

<210> 64
<211> 17
<212> PRT
<213> Homo sapiens

<400> 64
Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 65
<211> 13
<212> PRT
<213> Homo sapiens

<400> 65
Glu Gly Val Thr Thr Ile Phe Tyr Trp Tyr Phe Asp Leu
1 5 10

<210> 66
<211> 12
<212> PRT
<213> Homo sapiens

<400> 66
 Gly Gly Ser Ile Ser Ser Gly Gly Tyr Tyr Trp Ser
 1 5 10

<210> 67
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 67
 Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
 1 5 10 15

<210> 68
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 68
 Glu Val Ile Val Ala Arg Pro Trp Phe Asp Pro
 1 5 10

<210> 69
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 69
 Gly Phe Thr Phe Ser Ile Tyr Gly Met His
 1 5 10

<210> 70
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 70
 Ile Ile Ser Tyr Gly Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 71
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 71
 Glu Ile Ala Ala Ala Gly Ser Ser Gly Met Asp Val
 1 5 10

<210> 72
<211> 10
<212> PRT
<213> Homo sapiens

<400> 72
Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Gly
1 5 10

<210> 73
<211> 17
<212> PRT
<213> Homo sapiens

<400> 73
Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln
1 5 10 15
Gly

<210> 74
<211> 12
<212> PRT
<213> Homo sapiens

<400> 74
Pro Pro Pro Gly Ile Ala Val Pro Phe Lys Asp Tyr
1 5 10

<210> 75
<211> 10
<212> PRT
<213> Homo sapiens

<400> 75
Gly Phe Thr Phe Ser Ser Tyr Gly Met His
1 5 10

<210> 76
<211> 17
<212> PRT
<213> Homo sapiens

<400> 76
Ile Ile Trp Tyr Asp Gly Ser Tyr Arg Phe Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 77
<211> 5
<212> PRT

<213> Homo sapiens

<400> 77

Arg Gly Phe Asp Tyr
1 5

<210> 78

<211> 10

<212> PRT

<213> Homo sapiens

<400> 78

Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn
1 5 10

<210> 79

<211> 17

<212> PRT

<213> Homo sapiens

<400> 79

Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 80

<211> 17

<212> PRT

<213> Homo sapiens

<400> 80

Glu Gly Leu Glu Leu Arg Arg Gly Tyr Tyr Tyr Tyr Tyr Gly Met Asp
1 5 10 15
Val

<210> 81

<211> 10

<212> PRT

<213> Homo sapiens

<400> 81

Gly Tyr Thr Phe Thr Gly Tyr Tyr Met His
1 5 10

<210> 82

<211> 17

<212> PRT

<213> Homo sapiens

<400> 82

Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln
 1 5 10 15
 Gly

<210> 83
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 83
 Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Leu Asp
 1 5 10 15
 Val

<210> 84
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 84
 Gly Phe Thr Phe Ser Ser Tyr Ala Met Ser
 1 5 10

<210> 85
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 85
 Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 86
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 86
 Glu Gly Val Thr Thr Ile Phe Tyr Trp Tyr Phe Asp Leu
 1 5 10

<210> 87
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 87
 Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Gly

1 5 10

<210> 88
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 88
 Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln
 1 5 10 15
 Gly

<210> 89
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 89
 Gln Arg Arg Gly Phe Asp Tyr
 1 5

<210> 90
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 90
 Gly Tyr Ser Phe Thr Ser Tyr Trp Ile Ala
 1 5 10

<210> 91
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 91
 Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Gln
 1 5 10 15
 Gly

<210> 92
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 92
 Gly Arg Gly Gly Phe Asp Tyr
 1 5

<210> 93
<211> 10
<212> PRT
<213> Homo sapiens

<400> 93
Gly Phe Thr Phe Ser Thr Tyr Gly Met His
1 5 10

<210> 94
<211> 17
<212> PRT
<213> Homo sapiens

<400> 94
Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 95
<211> 10
<212> PRT
<213> Homo sapiens

<400> 95
Ala Val Ala Gly Thr Gly Ala Phe Asp Ile
1 5 10

<210> 96
<211> 10
<212> PRT
<213> Homo sapiens

<400> 96
Gly Phe Thr Phe Ser Ser Tyr Ser Met Asn
1 5 10

<210> 97
<211> 17
<212> PRT
<213> Homo sapiens

<400> 97
Tyr Ile Ser Ser Gly Ser Ser Thr Ile Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 98
<211> 17
<212> PRT

<213> Homo sapiens

<400> 98

Glu	Gly	Leu	Glu	Leu	Arg	Arg	Gly	Tyr	Tyr	Tyr	Tyr	Tyr	Gly	Met	Asp
1				5				10						15	

Val

<210> 99

<211> 12

<212> PRT

<213> Homo sapiens

<400> 99

Gly	Gly	Ser	Ile	Ser	Arg	Ser	Ser	Tyr	Tyr	Trp	Gly
1				5				10			

<210> 100

<211> 16

<212> PRT

<213> Homo sapiens

<400> 100

Ser	Ile	Tyr	Tyr	Ser	Gly	Ser	Thr	Tyr	Tyr	Asn	Pro	Ser	Leu	Lys	Ser
1				5				10						15	

<210> 101

<211> 10

<212> PRT

<213> Homo sapiens

<400> 101

Gly	Phe	Thr	Phe	Ser	Asn	Tyr	Gly	Ile	His
1				5				10	

<210> 102

<211> 17

<212> PRT

<213> Homo sapiens

<400> 102

Val	Ile	Trp	Tyr	Asp	Gly	Ser	Tyr	Lys	Phe	Tyr	Ala	Asp	Ser	Val	Lys
1				5				10						15	

Gly

<210> 103

<211> 5

<212> PRT

<213> Homo sapiens

<400> 103

Arg Gly Phe Asp Ser
1 5

<210> 104
<211> 10
<212> PRT
<213> Homo sapiens

<400> 104
Gly Phe Thr Phe Ser Ser Tyr Gly Met His
1 5 10

<210> 105
<211> 17
<212> PRT
<213> Homo sapiens

<400> 105
Ala Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 106
<211> 11
<212> PRT
<213> Homo sapiens

<400> 106
Gly Gly Thr Gly Thr Pro Gly Ala Phe Asp Ile
1 5 10

<210> 107
<211> 10
<212> PRT
<213> Homo sapiens

<400> 107
Gly Phe Ile Phe Ser Asn Ala Trp Met Ser
1 5 10

<210> 108
<211> 19
<212> PRT
<213> Homo sapiens

<400> 108
Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala Pro
1 5 10 15
Val Lys Gly

<210> 109
<211> 12
<212> PRT
<213> Homo sapiens

<400> 109
Gly Met Ile Thr Phe Gly Gly Ala Met Phe Asp Phe
1 5 10

<210> 110
<211> 10
<212> PRT
<213> Homo sapiens

<400> 110
Gly Tyr Thr Phe Asn Asp Tyr Tyr Met His
1 5 10

<210> 111
<211> 17
<212> PRT
<213> Homo sapiens

<400> 111
Trp Ile His Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15
Gly

<210> 112
<211> 17
<212> PRT
<213> Homo sapiens

<400> 112
Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Met Asp
1 5 10 15
Val

<210> 113
<211> 10
<212> PRT
<213> Homo sapiens

<400> 113
Gly Phe Thr Phe Arg Ser Tyr Gly Met His
1 5 10

<210> 114
<211> 17

<212> PRT
 <213> Homo sapiens

 <400> 114
 Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 115
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 115
 Gly Val Tyr Gly Asp Phe Asp Tyr
 1 5

<210> 116
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 116
 Gly Phe Thr Phe Ser Asn Tyr Gly Met His
 1 5 10

<210> 117
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 117
 Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 118
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 118
 Arg Asp Trp Asn Tyr Gly Met Asp Val
 1 5

<210> 119
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 119
Gly Tyr Thr Phe Thr Asp Tyr Tyr Met His
1 5 10

<210> 120
<211> 17
<212> PRT
<213> Homo sapiens

<400> 120
Trp Ile Ser Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe Gln
1 5 10 15
Gly

<210> 121
<211> 17
<212> PRT
<213> Homo sapiens

<400> 121
Asp Arg Asp Thr Ala Met Val Phe Tyr Tyr Tyr Tyr Tyr Ala Met Asp
1 5 10 15
Val

<210> 122
<211> 10
<212> PRT
<213> Homo sapiens

<400> 122
Gly Phe Thr Phe Ser Ser Tyr Gly Met His
1 5 10

<210> 123
<211> 17
<212> PRT
<213> Homo sapiens

<400> 123
Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
1 5 10 15
Gly

<210> 124
<211> 16
<212> PRT
<213> Homo sapiens

<400> 124

Gln Gly Ile Ala Ala Arg Arg Asn Tyr Tyr Tyr Ser Gly Met Asp Val
 1 5 10 15

<210> 125
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 125
 Gly Tyr Thr Phe Thr Ser Tyr Asp Ile Asn
 1 5 10

<210> 126
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 126
 Trp Met Asp Pro Asn Ser Gly His Thr Gly Tyr Ala Gln Lys Phe Gln
 1 5 10 15
 Gly

<210> 127
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 127
 Glu Gly Asn Trp Gly Ser Phe Asp Tyr
 1 5

<210> 128
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 128
 Gly Tyr Ser Phe Thr Asn Tyr Trp Ile Gly
 1 5 10

<210> 129
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 129
 Phe Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe Glu
 1 5 10 15
 Gly

<210> 130
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 130
 His Thr Gly Ala Leu Asp Tyr
 1 5

<210> 131
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 131
 Gly Ile Thr Phe Ser Ser Tyr Gly Met His
 1 5 10

<210> 132
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 132
 Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Val Asp Ser Val Lys
 1 5 10 15
 Gly

<210> 133
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 133
 Arg Gly Pro Leu Tyr Ala Phe Asp Ile
 1 5

<210> 134
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 101, 102
 <223> Xaa = Any Amino Acid

<400> 134
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr

	20		25		30										
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
	35		40		45										
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50		55		60										
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65			70		75									80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85		90									95	
Ala	Arg	Gly	Gly	Xaa	Xaa	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
	100		105		110										
Val	Thr	Val	Ser	Ser	Ala										
	115														

<210> 135
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 102
 <223> Xaa = Any Amino Acid

	135														
Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1		5		10		15									
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
	20		25		30										
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
	35		40		45										
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50		55		60										
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65			70		75									80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85		90									95	
Ala	Arg	Ser	Ser	Ser	Xaa	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
	100		105		110										
Val	Thr	Val	Ser	Ser	Ala										
	115														

<210> 136
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 99, 100, 103, 104, 105
 <223> Xaa = Any Amino Acid

	136														
Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Val	Val	Gln	Pro	Gly	Arg
1		5		10		15									

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Xaa Xaa Thr Gly Xaa Xaa Xaa Ala Phe Asp Ile Trp Gly Gln
 100 105 110
 Gly Thr Met Val Thr Val Ser Ser Ala
 115 120

<210> 137
 <211> 119
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 99, 100
 <223> Xaa = Any Amino Acid

<400> 137
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Xaa Xaa Trp Asn Tyr Ala Phe Asp Ile Trp Gly Gln Gly Thr
 100 105 110
 Met Val Thr Val Ser Ser Ala
 115

<210> 138
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 99, 100, 102
 <223> Xaa = Any Amino Acid

<400> 138
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu

1				5					10					15			
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr		
			20					25					30				
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met		
		35					40					45					
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe		
	50					55					60						
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr		
65					70				75						80		
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys		
			85					90					95				
Ala	Arg	Xaa	Xaa	Leu	Xaa	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val		
		100						105					110				
Thr	Val	Ser	Ser	Ala													
		115															

<210> 139
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 101
 <223> Xaa = Any Amino Acid

<400> 139																	
Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu		
1				5					10				15				
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr		
			20					25					30				
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met		
		35					40					45					
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe		
	50					55					60						
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr		
65					70				75						80		
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys		
			85					90					95				
Ala	Arg	Ser	Trp	Xaa	Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr		
		100						105					110				
Val	Thr	Val	Ser	Ser	Ala												
		115															

<210> 140
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 99
 <223> Xaa = Any Amino Acid

<400> 140

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Xaa	Trp	Cys	Tyr	Gly	Met	Asp	Val	Trp	Gly	Gln	Gly	Thr	Thr
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
			115												

<210> 141
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 97, 98, 102
 <223> Xaa = Any Amino Acid

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35					40					45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50					55					60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70					75					80
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85						90					95	
Xaa	Xaa	Thr	Gly	Thr	Xaa	Ala	Phe	Asp	Ile	Trp	Gly	Gln	Gly	Thr	Met
			100					105					110		
Val	Thr	Val	Ser	Ser	Ala										
			115												

<210> 142
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 99, 100
 <223> Xaa = Any Amino Acid

<400> 142
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
 50 55 60
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Arg Xaa Xaa Thr Ile Phe Gly Val Ile Asp Tyr Trp Gly Gln
 100 105 110
 Gly Thr Leu Val Thr Val Ser Ser Ala
 115 120

<210> 143
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 99, 100
 <223> Xaa = Any Amino Acid

<400> 143
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Xaa Xaa Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr
 100 105 110
 Val Thr Val Ser Ser Ala
 115

<210> 144
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 99, 100, 101
 <223> Xaa = Any Amino Acid

<400> 144
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg Xaa Xaa Xaa Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val
 100 105 110
 Thr Val Ser Ser Ala
 115

<210> 145
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 145
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Arg His Ser Gly Ser Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu
 100 105 110
 Val Thr Val Ser Ser Ala
 115

<210> 146
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 146
 Arg Ala Ser Gln Ser Val Ser Ser Arg Tyr Leu Ala
 1 5 10

<210> 147
 <211> 7
 <212> PRT

<213> Homo sapiens

<400> 147

Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 148

<211> 9

<212> PRT

<213> Homo sapiens

<400> 148

Gln Gln Tyr Gly Ser Ser Gln Ile Thr
1 5

<210> 149

<211> 11

<212> PRT

<213> Homo sapiens

<400> 149

Arg Ala Ser Gln Gly Ile Ser Asn Asp Leu Ala
1 5 10

<210> 150

<211> 7

<212> PRT

<213> Homo sapiens

<400> 150

Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 151

<211> 9

<212> PRT

<213> Homo sapiens

<400> 151

Leu Gln His Asn Ser Tyr Pro Leu Thr
1 5

<210> 152

<211> 11

<212> PRT

<213> Homo sapiens

<400> 152

Arg Ala Ser Gln Gly Ile Arg Asn Asp Leu Gly
1 5 10

<210> 153
<211> 7
<212> PRT
<213> Homo sapiens

<400> 153
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 154
<211> 9
<212> PRT
<213> Homo sapiens

<400> 154
Leu Gln His Asn Ile Tyr Pro Leu Thr
1 5

<210> 155
<211> 17
<212> PRT
<213> Homo sapiens

<400> 155
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15
Thr

<210> 156
<211> 7
<212> PRT
<213> Homo sapiens

<400> 156
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 157
<211> 9
<212> PRT
<213> Homo sapiens

<400> 157
Gln Gln Tyr Tyr Ser Thr Pro Arg Thr
1 5

<210> 158
<211> 12
<212> PRT
<213> Homo sapiens

<400> 158
Arg Ala Ser Gln Ser Val Ser Ser Arg Tyr Leu Ala
1 5 10

<210> 159
<211> 7
<212> PRT
<213> Homo sapiens

<400> 159
Gly Ala Ser Ser Arg Ala Ala
1 5

<210> 160
<211> 10
<212> PRT
<213> Homo sapiens

<400> 160
Gln Gln Cys Asp Tyr Ser Pro Pro Cys Ser
1 5 10

<210> 161
<211> 12
<212> PRT
<213> Homo sapiens

<400> 161
Arg Ala Ser Gln Ser Val Arg Lys Ser Tyr Leu Ala
1 5 10

<210> 162
<211> 7
<212> PRT
<213> Homo sapiens

<400> 162
Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 163
<211> 9
<212> PRT
<213> Homo sapiens

<400> 163
Gln Gln Tyr Asp Tyr Ser Pro Ile Thr
1 5

<210> 164
<211> 17

<212> PRT
<213> Homo sapiens

<400> 164
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15
Ala

<210> 165
<211> 7
<212> PRT
<213> Homo sapiens

<400> 165
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 166
<211> 9
<212> PRT
<213> Homo sapiens

<400> 166
Gln Gln Tyr Tyr Ser Thr Pro Arg Thr
1 5

<210> 167
<211> 16
<212> PRT
<213> Homo sapiens

<400> 167
Arg Ser Ser Gln Ser Leu Leu Gln Ser Asn Gly Tyr Lys Tyr Leu Glu
1 5 10 15

<210> 168
<211> 7
<212> PRT
<213> Homo sapiens

<400> 168
Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 169
<211> 9
<212> PRT
<213> Homo sapiens

<400> 169
Met Gln Ala Leu Gln Thr Pro Leu Thr

1 5

<210> 170
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 170
 Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala
 1 5 10

<210> 171
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 171
 Gly Ala Ser Thr Arg Ala Thr
 1 5

<210> 172
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 172
 Gln Gln Tyr Asn Asn Trp Pro Pro Cys Ser
 1 5 10

<210> 173
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 173
 Arg Ala Ser Gln Ser Val Ser Arg Ile Leu Ala
 1 5 10

<210> 174
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 174
 Gly Ala Ser Thr Arg Ala Thr
 1 5

<210> 175
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 175
Gln Gln Tyr His Asn Trp Pro Ile Thr
1 5

<210> 176
<211> 16
<212> PRT
<213> Homo sapiens

<400> 176
Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 177
<211> 7
<212> PRT
<213> Homo sapiens

<400> 177
Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 178
<211> 9
<212> PRT
<213> Homo sapiens

<400> 178
Met Gln Ala Leu Gln Thr Pro Phe Thr
1 5

<210> 179
<211> 11
<212> PRT
<213> Homo sapiens

<400> 179
Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
1 5 10

<210> 180
<211> 7
<212> PRT
<213> Homo sapiens

<400> 180
Asp Ala Ser Asn Leu Glu Thr
1 5

<210> 181

<211> 9
<212> PRT
<213> Homo sapiens

<400> 181
Gln Gln Tyr Asp Asn Leu Pro Ile Thr
1 5

<210> 182
<211> 17
<212> PRT
<213> Homo sapiens

<400> 182
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Tyr Phe Leu
1 5 10 15
Ala

<210> 183
<211> 7
<212> PRT
<213> Homo sapiens

<400> 183
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 184
<211> 9
<212> PRT
<213> Homo sapiens

<400> 184
Gln Gln Tyr Tyr Ser Ser Pro Trp Thr
1 5

<210> 185
<211> 17
<212> PRT
<213> Homo sapiens

<400> 185
Lys Ser Ser Gln Ser Val Leu Tyr Arg Ser Asn Asn Lys Asn Phe Leu
1 5 10 15
Ala

<210> 186
<211> 7
<212> PRT
<213> Homo sapiens

<400> 186
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 187
<211> 9
<212> PRT
<213> Homo sapiens

<400> 187
Gln Gln His Tyr Ser Ile Pro Leu Thr
1 5

<210> 188
<211> 17
<212> PRT
<213> Homo sapiens

<400> 188
Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15
Ala

<210> 189
<211> 7
<212> PRT
<213> Homo sapiens

<400> 189
Trp Ala Ser Thr Arg Asp Ser
1 5

<210> 190
<211> 9
<212> PRT
<213> Homo sapiens

<400> 190
Gln Gln Tyr Tyr Ser Thr Pro Arg Thr
1 5

<210> 191
<211> 11
<212> PRT
<213> Homo sapiens

<400> 191
Arg Ala Ser Gln Gly Ile Arg Asn Asp Leu Ala
1 5 10

<210> 192
<211> 7
<212> PRT
<213> Homo sapiens

<400> 192
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 193
<211> 9
<212> PRT
<213> Homo sapiens

<400> 193
Leu Gln His Asn Ser Tyr Pro Pro Thr
1 5

<210> 194
<211> 12
<212> PRT
<213> Homo sapiens

<400> 194
Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 195
<211> 7
<212> PRT
<213> Homo sapiens

<400> 195
Gly Ala Ser Ser Arg Ala Thr
1 5

<210> 196
<211> 10
<212> PRT
<213> Homo sapiens

<400> 196
Gln His Tyr Gly Ser Leu Pro Pro Cys Ser
1 5 10

<210> 197
<211> 16
<212> PRT
<213> Homo sapiens

<400> 197

Lys Ser Ser Gln Ser Leu Leu Tyr Ser Asp Gly Lys Thr Tyr Leu Tyr
1 5 10 15

<210> 198
<211> 7
<212> PRT
<213> Homo sapiens

<400> 198
Glu Val Ser Asn Arg Phe Ser
1 5

<210> 199
<211> 9
<212> PRT
<213> Homo sapiens

<400> 199
Met Gln Ser Ile Gln Leu Pro Leu Thr
1 5

<210> 200
<211> 17
<212> PRT
<213> Homo sapiens

<400> 200
Lys Ser Ser Gln Ser Val Leu Phe Arg Ser Asn Asn Arg Asn Tyr Leu
1 5 10 15
Ala

<210> 201
<211> 7
<212> PRT
<213> Homo sapiens

<400> 201
Trp Ala Ser Thr Arg Glu Ser
1 5

<210> 202
<211> 9
<212> PRT
<213> Homo sapiens

<400> 202
Gln Gln Tyr Tyr Ser Ile Pro Arg Thr
1 5

<210> 203

<211> 16
<212> PRT
<213> Homo sapiens

<400> 203
Lys Ser Ser Gln Ser Leu Leu His Ser Asp Gly Lys Thr Tyr Leu Tyr
1 5 10 15

<210> 204
<211> 7
<212> PRT
<213> Homo sapiens

<400> 204
Glu Val Ser Asn Arg Phe Ser
1 5

<210> 205
<211> 9
<212> PRT
<213> Homo sapiens

<400> 205
Met Gln Ser Ile Gln Leu Pro Leu Thr
1 5

<210> 206
<211> 16
<212> PRT
<213> Homo sapiens

<400> 206
Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
1 5 10 15

<210> 207
<211> 7
<212> PRT
<213> Homo sapiens

<400> 207
Leu Gly Ser Asn Arg Ala Ser
1 5

<210> 208
<211> 8
<212> PRT
<213> Homo sapiens

<400> 208
Met Gln Ala Leu Gln Thr Ile Thr
1 5

<210> 209
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 209
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Ile
 85 90 95
 Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
 100 105

<210> 210
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 210
 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1 5 10 15
 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
 20 25 30
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro
 85 90 95
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 211
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 211
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp
 20 25 30
 Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile

	35					40				45						
Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	
	50					55					60					
Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	
65					70					75				80		
Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	His	Asn	Ser	Tyr	Pro	Pro	
				85					90					95		
Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg					
			100					105								

<210> 212
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 212																
Asp	Ile	Val	Met	Thr	Gln	Ser	Pro	Leu	Ser	Leu	Pro	Val	Thr	Pro	Gly	
1				5					10					15		
Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Ser	
			20					25					30			
Asn	Gly	Tyr	Asn	Tyr	Leu	Asp	Trp	Tyr	Leu	Gln	Lys	Pro	Gly	Gln	Ser	
		35					40					45				
Pro	Gln	Leu	Leu	Ile	Tyr	Leu	Gly	Ser	Asn	Arg	Ala	Ser	Gly	Val	Pro	
	50					55				60						
Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys	Ile	
65					70					75				80		
Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln	Ala	
				85					90					95		
Leu	Gln	Thr	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	
			100					105					110			
Arg																

<210> 213
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 213																
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Gly	Thr	Leu	Ser	Leu	Ser	Pro	Gly	
1				5					10					15		
Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Val	Ser	Ser	Ser	
			20					25					30			
Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu	
		35					40					45				
Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser	
	50					55					60					
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu	
65					70					75				80		
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Gly	Ser	Ser	Pro	
				85					90					95		
Pro	Phe	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg			
			100					105					110			

<210> 214
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 214
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Pro
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 215
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 215
 Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1 5 10 15
 Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His Ser
 20 25 30
 Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45
 Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro
 50 55 60
 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80
 Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala
 85 90 95
 Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Arg
 100 105 110

<210> 216
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 43, 44, 45, 46
 <223> Xaa = Any Amino Acid

<400> 216
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15

Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
			20					25					30		
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Xaa	Xaa	Xaa	Xaa	Pro	Lys
		35					40					45			
Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg
		50				55					60				
Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser
65					70				75					80	
Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Ser
			85					90						95	
Thr	Pro	Pro	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg	
			100					105					110		

<210> 217
 <211> 110
 <212> PRT
 <213> Homo sapiens

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Thr	Ser	Tyr
			20					25					30		
Trp	Ile	Gly	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35				40						45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Thr	Arg	Tyr	Ser	Pro	Ser	Phe
	50				55						60				
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70				75					80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Trp	Gly	Gln	Gly	Thr	Met	Val	Thr	Val	Ser	Ser	Ala		
			100					105					110		

<210> 218
 <211> 110
 <212> PRT
 <213> Homo sapiens

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Glu
1				5					10					15	
Ser	Leu	Lys	Ile	Ser	Cys	Lys	Gly	Ser	Gly	Tyr	Ser	Phe	Ile	Ser	Tyr
			20					25					30		
Trp	Ile	Ala	Trp	Val	Arg	Gln	Met	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Met
		35				40						45			
Gly	Ile	Ile	Tyr	Pro	Gly	Asp	Ser	Asp	Ala	Arg	Tyr	Ser	Pro	Ser	Phe
	50				55					60					
Gln	Gly	Gln	Val	Thr	Ile	Ser	Ala	Asp	Lys	Ser	Ile	Ser	Thr	Ala	Tyr
65					70				75					80	
Leu	Gln	Trp	Ser	Ser	Leu	Lys	Ala	Ser	Asp	Thr	Ala	Met	Tyr	Tyr	Cys
			85					90					95		
Ala	Arg	Thr	Thr	Gln	Asp	Thr	Met	Val	Thr	Val	Ser	Ser	Ala		
			100					105					110		

<210> 219
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 219
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Asn Phe Ile Thr Tyr
 20 25 30
 Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Ala Leu Trp Gly Gln Arg Thr Met Glu Thr Val Ser Ser Ala
 100 105 110

<210> 220
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 44, 45, 46
 <223> Xaa = Any Amino Acid

<400> 220
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser Tyr
 20 25 30
 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Xaa Xaa Xaa Pro Lys
 35 40 45
 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg
 50 55 60
 Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
 65 70 75 80
 Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser
 85 90 95
 Thr Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105 110

<210> 221
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT

<222> 44, 45, 46

<223> Xaa = Any Amino Acid

<400> 221

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5				10					15		
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser	Tyr
			20					25				30			
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Xaa	Xaa	Xaa	Pro	Lys
	35						40				45				
Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg
	50					55				60					
Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser
65					70				75					80	
Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Tyr	Asn
				85				90					95		
Thr	Pro	Pro	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	
			100					105					110		

<210> 222

<211> 111

<212> PRT

<213> Homo sapiens

<400> 222

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly
1				5				10					15		
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Gly	Ser	Tyr
			20					25				30			
Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Pro	Gly	Lys	Gly	Pro	Lys
	35						40				45				
Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Gln	Thr	Gly	Val	Pro	Ser	Arg
	50					55				60					
Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser
65					70				75					80	
Leu	Arg	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ser	Phe	Asn
				85				90					95		
Thr	Pro	Pro	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile	Lys	Arg	
			100					105					110		